

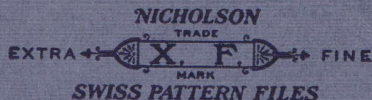


# NICHOLSON

## FILES AND RASPS

AND

## X.F. SWISS PATTERN FILES



NICHOLSON FILE COMPANY • PROVIDENCE 1, RHODE ISLAND, U. S. A.



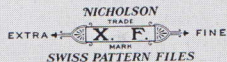


# NICHOLSON FILE COMPANY

PROVIDENCE 1, RHODE ISLAND, U.S.A.



## FILES • RASPS



• 1945 •

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CABLE ADDRESS: Nicholson Providence

CODES USED: Nicholson (order code) and all standard codes

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## HISTORICAL SKETCH

THE main plant and general executive offices of the Nicholson File Company are located a short distance from the center of the city of Providence. They are of thoroughly modern construction, well lighted and ventilated, and designed especially for the manufacture of files. They are equipped with special machines and appliances, the principles of which were conceived by Mr. William T. Nicholson, the founder of the Nicholson File Company and the successful developer of the machine-file-making industry.

Mr. Nicholson's early business experience was in the machine tool business, where he developed the idea of constructing a file cutting machine. As he progressed with his new idea he became greatly enthused over the possibilities of such a machine and in order to be thoroughly informed regarding the file industry went to Europe which at that time supplied most of the files used in America. There he studied not only the manufacture and use of files but also such kindred industries as the manufacture and heat treatment of steel, and he returned only when he felt sufficiently informed on the subject to establish his own file factory.

In 1864 the Nicholson File Company was incorporated and its first plant erected immediately at Providence. It was hoped at the time that a daily production of 300 dozen files might be reached, but business was not easily obtained. Several similar enterprises were attempting to cut files by machine, and the resulting products

were of very inferior quality and were being offered by makers of hand cut files as convincing examples of the failure of file cutting by machinery.

The superior quality of the new Nicholson Files gradually became an acknowledged fact, the antagonism towards machine cut files diminished, and the output of the works slowly increased until over three hundred dozen files a day were being manufactured. Nicholson Files in a few years had become the standard in America, and hand cut files were a thing of the past.

In 1870 the first of a series of very complete catalogs was published, and in 1878 Mr. Nicholson wrote a treatise on files and their proper selection and use, which as "File Philosophy" is now in the first printing of its sixteenth edition.

Mr. Nicholson, at the time of his death in October 1893, had seen the output of his works increased to over 1500 dozen files daily, and he had established an organization which has since developed the Company until it now operates four large plants in the United States and Canada which turn out many thousands of dozens of files a day.

Colonel Samuel M. Nicholson, son of the founder, devoted his entire business life to the manufacture of files and managed the Company from 1893 to the time of his death in 1939. Under his leadership the Nicholson File Company became the largest company in the world manu-



# N I C H O L S O N   F I L E   C O M P A N Y

facturing exclusively Files and Rasps. Whereas the founder was a pioneer in the science of cutting files by machinery, Colonel Nicholson was a pioneer exporter of files and as a result Nicholson Files are to be found in every market of the world.

Mr. Paul C. Nicholson, grandson of the founder, has been very active in the management since 1911. Upon the death of Colonel Samuel M. Nicholson he was elected president and general manager of the Company. He has devoted much of his time to the development of scientific methods for improving the quality and testing the efficiency of files and toward that end has established and personally interested himself in exceptionally well equipped testing and experimental research departments.

Mr. Paul C. Nicholson, Jr. joined Nicholson File Company immediately following his graduation from Sheffield Scientific School of Yale University in 1940.

The principal factory of the Company is located at Providence and large branch factories are at Philadelphia, Pa., Anderson, Indiana, and Port Hope, Ontario. At the Providence factory are manufactured the full lines of Nicholson, Black Diamond and McCaffrey Brands of Files and Rasps, a complete line of Nicholson X.F. Swiss Pattern Files and various associated

products such as File Handles, Holders, and Cleaners. Nicholson, Black Diamond and McCaffrey Files and Rasps and Nicholson X.F. Swiss Pattern Files represent the very highest quality product of this Company. The manufacture of Nicholson X.F. Swiss Pattern Files was first started in 1893 and is carried on in a thoroughly modern plant equipped with the finest tools and machinery to assure the production of Swiss Pattern Files of a quality that will give entire satisfaction to the exacting requirements of jewelers, watch makers and fine tool makers.

At the Philadelphia and Anderson plants are manufactured many brands of commercial grade files. These are first quality files, although not of the highest grade such as the Nicholson, Black Diamond and McCaffrey, and are sold under the following brands: American, Arcade, Eagle, Great Western, Kearney & Foot, McClellan and J. Barton Smith.

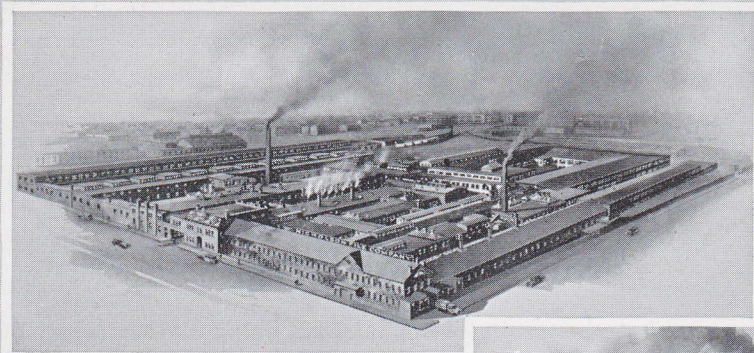
At the Port Hope, Ontario, plant Black Diamond Files are manufactured for the Canadian trade, together with the brands of commercial grade. Nicholson X.F. Swiss Pattern Files are made in Providence but sold to Canadian customers through the Port Hope factory.

NICHOLSON  
FILE COMPANY  
JUNE, 1945

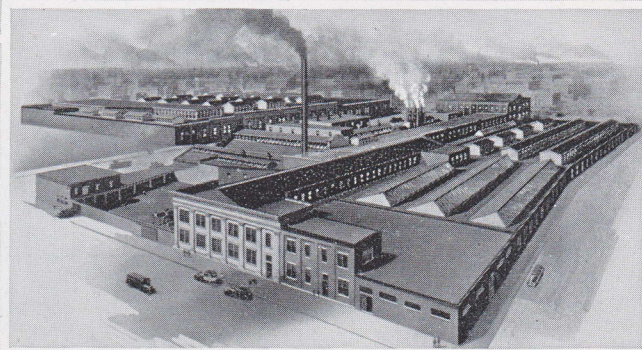


WILLIAM T. NICHOLSON, Founder

# N I C H O L S O N   F I L E   C O M P A N Y



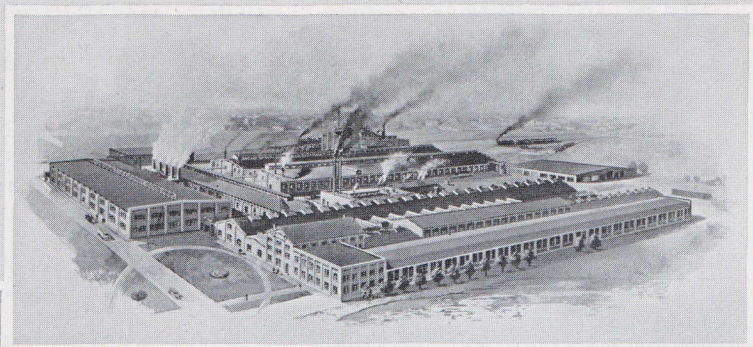
PLANT AT PROVIDENCE, R. I.  
U. S. A.



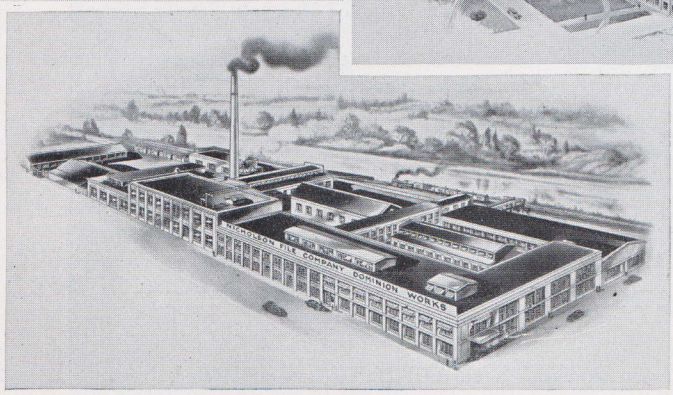
PLANT AT PHILADELPHIA, PA.  
U. S. A.



# N I C H O L S O N   F I L E   C O M P A N Y



PLANT AT ANDERSON, IND.  
U. S. A.



PLANT AT PORT HOPE, ONT.  
CANADA

PATENTED



*For Faster Filing  
on Soft Irons and Steels*

For rapid filing of soft irons and steels, we recommend our Patented Tooth Construction known as "Controlled Serrations." This means that each tooth point is subdivided into extra cutting edges which permit the file to take hold of the stock from the first stroke and to remove more metal than ordinary files.

An added feature of this Tooth Construction is the elimination of the tendency of old style files to skid or slide from the line of work.

NICHOLSON PATENTED FILE TEETH

*Cut Faster, Last Longer*

*Do Not Ride Off the Line of Work*



## GENERAL INFORMATION

**F**ILES and Rasps are made of high carbon steel of special analysis which is made under careful supervision and subjected to the most rigid inspections and tests. Skilled and careful attention is constantly given to this most important requisite of the highest quality product. The Nicholson File Company possesses facilities for manufacturing Files and Rasps which are unequaled by any other file factory in the world. Its extensive buildings were designed especially for the manufacture of Files and Rasps. Special machinery and methods of manufacture, which are the result of constant researches and inventions throughout the life of the Company, insure a completed product that is unexcelled.

Each process of manufacture is given highly skilled supervision and critical inspection while the work is being performed, resulting in a uniformity of product and a high excellence of quality.

Files and Rasps have three distinguishing features:

*First*—THEIR LENGTH, which is always measured exclusive of the tang.

*Second*—THEIR KIND OR NAME, which has reference to the shape or style.

*Third*—THEIR CUT, which has reference not only to the character but also to the coarseness of the teeth.

This catalogue is designed to be of service to all those who distribute or use Files and Rasps. It is not our intention to illustrate in full detail our entire product but rather to present sufficient illustrations of various types of Files and Rasps, with definite information concerning each, to make the book instructive and easily understood.

For convenience of reference we have grouped our product, all illustrated in this catalogue, into several classes as indicated below:

*First*—THE SAW FILE GROUP, comprising the kinds of files whose particular use is in sharpening or filing saws of various descriptions. This includes Mill Files, Triangular or Three Cornered Saw Files and Saw Files of special sections.

*Second*—THE MACHINISTS' FILES, comprising those kinds generally used in machine shop practice, including the various styles of Flat, Hand, Half Round, Round, Square, Pillar, Warding, Knife, etc.

*Third*—RASPS OF VARIOUS TYPES. This group comprising Cabinet Rasps, Shoe Rasps, Wood Rasps and Horse Rasps.

*Fourth*—A complete line of Swiss Pattern Files and Riffles.

*Fifth*—An assortment of Tools and Specialties manufactured by this Company.

# N I C H O L S O N F I L E C O M P A N Y



## MILL FILES



Mill Files are used principally for filing mill or circular saws, also planer knives and mowing machine knives; for lathe work, draw-filing and for finishing compositions of brass and bronze.

Tapered slightly in thickness and in width for about one-third of their length.

Usually made with two square edges. Single cut.

Made in Bastard cut in lengths of 4, 6, 7, 8, 10, 12, 14 and 16 inches; in Second Cut in lengths of 6, 8, 10, 12 and 14 inches; and in Smooth cut in lengths of 6, 8, 10, 12 and 14 inches.



Mill Bastard

### APPROXIMATE SIZES OF FINISHED FILES

4''	6''	8''	10''	12''	14''	16''
$7\frac{1}{16}'' \times \frac{5}{64}''$	$5\frac{1}{8}'' \times \frac{1}{8}''$	$1\frac{3}{16}'' \times \frac{5}{32}''$	$1'' \times \frac{3}{16}''$	$1\frac{3}{16}'' \times \frac{7}{32}''$	$1\frac{3}{8}'' \times \frac{1}{4}''$	$1\frac{7}{32}'' \times \frac{9}{32}''$

### THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF MILL FILES

Bastard



4''



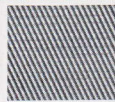
6''



8''



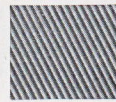
10''



12''

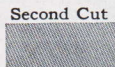


14''



16''

Second Cut



4''



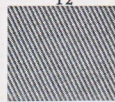
6''



8''



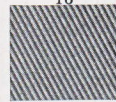
10''



12''



14''



16''

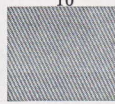
Smooth



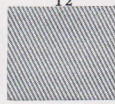
6''



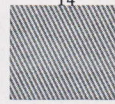
8''



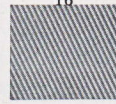
10''



12''



14''



16''





## MILL FILES—Continued



Mill Files are also made with two round edges for filing the gullet or space between the saw teeth. These files made in Bastard cut only. Mill Files with two round edges come in lengths of 6, 8 and 10 inches.



Mill Bastard,  
2 Round Edges

Special Crosscut or  
Mill Blunt Bastard

The file shown just above illustrates both the Mill Blunt Bastard and the Special Crosscut File. Both types are cut like a Mill Bastard, but are parallel in width and thickness. Made in lengths of 6, 7, 8 and 10 inches.

The Mill Blunt Bastard File is used wherever the filer prefers a Mill File which does not taper in width and thickness.

The 6" size, for example, is often used for filing bucksaws.

The Special Crosscut File, however, has teeth which are specially sharpened for use on Crosscut Saws and works with a smoothness which is evident from the first stroke. The tang is painted orange. Each file is cellophane wrapped. Packed one dozen in orange colored box.



## HANDSAW AND BANDSAW FILES

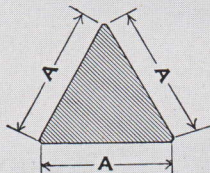


### TRIANGULAR OR THREE CORNERED—60-DEGREE ANGLES

Made for filing all types of saws having 60° angle teeth.

Handsaw files are usually single cut and have edges that are set and cut for filing the gullet between the saw teeth.

Bandsaw files are single cut and have rounded edges. Some Bandsaws have well rounded gullets between their teeth and these files are preferred for sharpening this type of saw. Bandsaw files are made of the same sections of steel as Handsaw files but because the edges are rounded, the finished files are slightly smaller in width.



Dimension "A"  
is equal for all  
sides or widths

### RULE FOR THE SELECTION OF SAW FILES

Select a file whose width, or flat side, is equal to a little more than twice the depth of the saw tooth.

### APPROXIMATE SIZES OF HANDSAW AND BANDSAW FILES

KIND	4"	4½"	5"	5½"	6"	7"	8"	9"	10"
Bandsaw Blunt					½"		⅝"		
Bandsaw Blunt Slim					⅜"		½"		
Taper					½"	⅞"	⅝"		¾"
Slim Taper	¼"		⅝"		⅜"	1⅜"	½"		
Extra Slim Taper	⅜"		7/32"	¼"	9/32"	11/32"			
Double Extra Slim Taper	5/32"		3/16"		7/32"	¼"	5/16"		
Double Ender						7/32"	9/32"	11/32"	3/8"





## SAW FILES—Continued



### TRIANGULAR OR THREE CORNERED—60-DEGREE ANGLES



Made in lengths of 6, 7, 8 and 10 inches.

Taper



Made in lengths of 4, 5, 6, 7 and 8 inches.

Slim Taper



Made in lengths of 4, 5, 5½, 6 and 7 inches.

Extra Slim Taper



Made in lengths of 4, 5, 6, 7 and 8 inches.  
8" x ¼" and 8" x ⅜" Double Extra Slim Taper Files can also be supplied.

Double Extra Slim Taper



Made in lengths of 7, 8, 9 and 10 inches.

Double Ender



Double Ender, with Handle

Double Ender Files are supplied with the handles as shown, six handles to each dozen files.



## SAW FILES—Continued



### TRIANGULAR OR THREE CORNERED—60-DEGREE ANGLES



Handsaw Blunt



Handsaw Blunt Slim

Single cut—Made in 6 inch length.



Handsaw Blunt Extra Slim

Single cut—Made in lengths of 5½, 6 and 7 inches.

Handsaw Blunt Slim and Handsaw Blunt Extra Slim Files are frequently preferred by carpenters and expert saw filers for sharpening handsaws. These files are also widely used in machines for sharpening saws.



Bandsaw

Single cut—Made in lengths of 6 and 8 inches, in Blunt only.



Bandsaw Blunt Slim

Single cut—Made in lengths of 6 and 8 inches.

Bandsaw Files are designed particularly for sharpening Bandsaws which have well rounded gullets between the teeth. Handsaw Blunt Extra Slim Files may also be obtained with round tangs for insertion in special handles. These are called Weed's Special Files and are made in 5, 5½ and 6-inch lengths and packed one dozen files and four handles to a box. Special list prices and folders sent on request.



# N I C H O L S O N F I L E C O M P A N Y



## MISCELLANEOUS SAW FILES



Crosscut

### APPROXIMATE SIZES OF FINISHED FILES

8" 10"  
 $\frac{11}{16}'' \times \frac{9}{32}''$   $\frac{13}{16}'' \times \frac{23}{64}''$

Single cut—Made in lengths of 8 and 10 inches. Same number of teeth per inch as Mill Bastard Files of the same lengths. Used for sharpening crosscut saws of the Great American style—the rounded backs being used to deepen the rounded gullets of the saw teeth.



Cantsaw

### APPROXIMATE SIZES OF FINISHED FILES

6" 8" 10"  
 $\frac{17}{32}'' \times \frac{13}{64}''$   $\frac{11}{16}'' \times \frac{17}{64}''$   $\frac{13}{16}'' \times \frac{5}{16}''$

Single cut—Made in lengths of 6, 8 and 10 inches. Same number of teeth per inch as Mill Bastard Files of the same lengths. Used for sharpening crosscut saws with the "M" teeth. Sometimes called Lightning Saw Files.



Pitsaw

### APPROXIMATE SIZES OF FINISHED FILES

6" 8"  
 $\frac{7}{16}'' \times \frac{7}{32}''$   $\frac{9}{16}'' \times \frac{9}{32}''$

Single cut—Made in lengths of 6 and 8 inches. Used for sharpening pit or frame saws. Cut slightly coarser than Mill Bastard Files of the same lengths.



## FLAT FILES



Flat Files are used by machinists, machinery builders, ship and engine builders, repair men and others who require rapid removal of metal. They are rectangular in cross section and taper slightly towards point in both width and thickness. Double cut on both sides, single cut on both edges. Made in Bastard, Second Cut and Smooth in lengths of 4, 6, 8, 10, 12, 14 and 16 inches. In Bastard cut in 18".



Flat Bastard

### APPROXIMATE SIZES OF FINISHED FILES

4"	6"	8"	10"	12"	14"	16"	18"
$\frac{7}{16}'' \times \frac{7}{64}''$	$\frac{5}{8}'' \times \frac{5}{32}''$	$1\frac{3}{16}'' \times \frac{7}{32}''$	$1'' \times \frac{1}{4}''$	$1\frac{3}{16}'' \times \frac{17}{64}''$	$1\frac{3}{8}'' \times \frac{19}{64}''$	$1\frac{17}{32}'' \times \frac{11}{32}''$	$1\frac{23}{32}'' \times \frac{23}{64}''$

## FLAT LEAD FLOAT FILES

Flat Lead Float Files are especially designed for use on lead, babbitt and other soft metals. They are made in lengths of 8, 10 and 12 inches.



Flat Lead Float

### APPROXIMATE SIZES OF FINISHED FILES

8"	10"	12"
$1\frac{3}{16}'' \times \frac{7}{32}''$	$1'' \times \frac{1}{4}''$	$1\frac{3}{16}'' \times \frac{17}{64}''$





## FLAT AND HAND FILES



THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF  
FLAT AND HAND FILES

Coarse



4"



6"



8"



10"



12"



14"



16"

Bastard



4"



6"



8"



10"



12"



14"



16"

Second Cut



4"



6"



8"



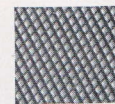
10"



12"



14"



16"

Smooth



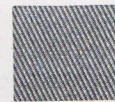
4"



6"



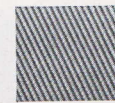
8"



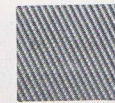
10"



12"



14"



16"



## HALF ROUND FILES



Generally used by machinists, engineers and repair men and because of the section being rounded on one side and flat on the other are extremely useful files.

The cuts on the flat side are graded in coarseness like Flat and Hand Files shown on the preceding page. The cuts on the backs are graded in coarseness like the illustrations shown on the following page.

Half Round Files are made in Bastard, Second Cut and Smooth cuts, and in lengths of 4, 6, 8, 10, 12, 14 and 16 inches.



Half Round Bastard

### APPROXIMATE SIZES OF FINISHED FILES

4"	6"	8"	10"	12"	14"	16"
$7\frac{1}{16}" \times 1\frac{1}{8}"$	$5\frac{1}{8}" \times 5\frac{1}{32}"$	$3\frac{1}{4}" \times 7\frac{1}{32}"$	$15\frac{1}{16}" \times 9\frac{1}{32}"$	$1\frac{1}{8}" \times 1\frac{1}{32}"$	$15\frac{1}{16}" \times 13\frac{1}{32}"$	$1\frac{1}{2}" \times 29\frac{1}{64}"$

## HALF ROUND LEAD FLOAT FILES

Half Round Lead Float Files are made for use on lead, babbitt and other soft metals. They are made in lengths of 8, 10 and 12 inches.



Half Round Lead Float

### APPROXIMATE SIZES OF FINISHED FILES

8"	10"	12"
$3\frac{1}{4}" \times 7\frac{1}{32}"$	$15\frac{1}{16}" \times 9\frac{1}{32}"$	$1\frac{1}{8}" \times 1\frac{1}{32}"$



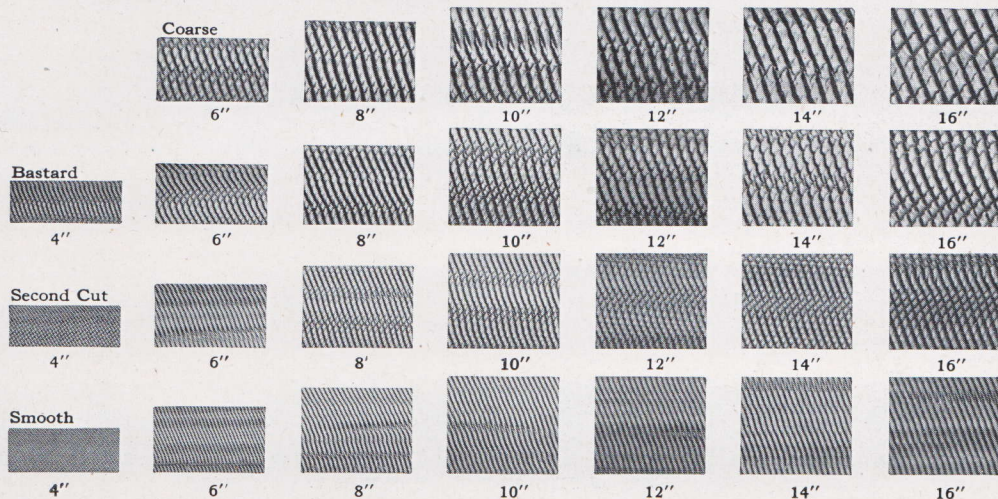


## HALF ROUND FILES



The backs of all Half Round Bastard Files are double cut. The backs of all Half Round Second Cut Files longer than 6 inches are double cut, the 4 and 6-inch files are single cut. The backs of all Half Round Smooth Files are single cut. The flat sides of all Half Round Files are double cut.

### THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF HALF ROUND FILES





## FLAT AND HALF ROUND BRASS FILES

The filing of brass, copper, bronze and similar metals requires a special type of file. While these metals are softer than steel they are also more malleable and are very ductile and tough. These Brass Files are very sharp and should be used with as little pressure as is needed to keep them cutting. Available in Grade A only.  
Made in Flat and Half Round sections in lengths of 8, 10 and 12 inches.



Flat Brass File

### APPROXIMATE SIZES OF FINISHED FILES

8"	10"	12"
$1\frac{3}{16}'' \times \frac{7}{32}''$	$1'' \times \frac{1}{4}''$	$1\frac{3}{16}'' \times \frac{1}{4}''$



Half Round Brass File

### APPROXIMATE SIZES OF FINISHED FILES

8"	10"	12"
$\frac{3}{4}'' \times \frac{7}{32}''$	$1\frac{5}{16}'' \times \frac{9}{32}''$	$1\frac{1}{8}'' \times \frac{1}{2}''$

## SHEAR TOOTH FILES

Shear Tooth Files are for use on aluminum, copper, brass and similar metals. May also be used on cast iron and steel. They remove material rapidly and leave a very smooth finish. Are single cut with a long angle and are furnished in Flat and Half Round sections in lengths of 6, 8, 10, 12 and 14 inches.



Flat Shear Tooth File

### APPROXIMATE SIZES OF FINISHED FLAT SHEAR TOOTH FILES

6"	8"	10"	12"	14"
$\frac{5}{8}'' \times \frac{5}{32}''$	$1\frac{3}{16}'' \times \frac{7}{32}''$	$1'' \times \frac{1}{4}''$	$1\frac{3}{16}'' \times \frac{1}{4}''$	$1\frac{3}{8}'' \times \frac{1}{4}''$



# N I C H O L S O N F I L E C O M P A N Y



## FLAT AND HALF ROUND ALUMINUM FILES—TYPE "A"

Best suited for filing aluminum or aluminum alloy castings. These files cut rapidly without clogging. All are of one coarseness of cut, regardless of the shape or size of the file. A smooth finish can easily be obtained by filing with a shearing cut toward the left. Half Rounds have fine points. Available in Grade A only.



Flat Aluminum  
File—Type "A"

6" 8" 10" 12" 14"  
 $\frac{5}{8}'' \times \frac{5}{32}''$   $1\frac{3}{16}'' \times \frac{7}{32}''$   $1'' \times \frac{1}{4}''$   $1\frac{3}{16}'' \times \frac{17}{64}''$   $1\frac{3}{8}'' \times \frac{19}{64}''$



Half Round Aluminum  
File—Type "A"

6" 8" 10" 12" 14"  
 $\frac{5}{8}'' \times \frac{5}{32}''$   $\frac{3}{4}'' \times \frac{7}{32}''$   $1\frac{5}{16}'' \times \frac{9}{32}''$   $1\frac{1}{8}'' \times \frac{11}{32}''$   $1\frac{5}{16}'' \times \frac{13}{32}''$

## LONG ANGLE LATHE FILES

Specially designed for lathe filing and for bench filing on aluminum and compositions of brass, bronze and similar metals. Long Angle Lathe Files are made on Flat File blanks. Cut on sides only with both edges safe or uncut. The Flat Long Angle Lathe Files are made in lengths of 10, 12 and 14 inches.



Long Angle Lathe File

## APPROXIMATE SIZES OF FINISHED FILES

10" 12" 14"  
 $1'' \times \frac{1}{4}''$   $1\frac{3}{16}'' \times \frac{17}{64}''$   $1\frac{3}{8}'' \times \frac{19}{64}''$

# N I C H O L S O N   F I L E   C O M P A N Y



FLAT ALUMINUM Nos. 75 AND 76



## FLAT ARMORY CUT FILES No. 204

This file is made in the 12" length only and is designed for body builders for filing sheet aluminum and sheet steel. Also used for lathe filing and by gun makers for finishing gun barrels. The teeth of this file are very quick cutting, clear themselves readily, and produce a smooth finish. Dimensions are the same as 12" Flat Bastard Files.



12" Flat Armory Cut

APPROXIMATE SIZE OF FINISHED FILE: 12"— $1\frac{3}{16}$ " x  $1\frac{1}{64}$ "

## DOCTOR BLADE FILES

Designed for filing Doctor Blades in the cloth printing industry. They are made 14 inches in length on Hand Blunt blanks without tang. They are double cut and are made in two degrees of coarseness, Coarse cut and Smooth cut.



APPROXIMATE SIZE OF FINISHED FILE: 14"— $1\frac{3}{8}$ " x  $1\frac{1}{64}$ "

14" Doctor Blade File





## HAND FILES



Widely used by machinists and machinery builders for filing flat surfaces.

Hand Files are of rectangular cross-section and are parallel in width and taper slightly in thickness. They are cut on both flat sides but on one edge only. Made in Bastard, Second Cut and Smooth cuts in lengths of 6, 8, 10, 12 and 14 inches and in Bastard cut only in the 16-inch size.



Hand Bastard

### APPROXIMATE SIZES OF FINISHED FILES

6"	8"	10"	12"	14"	16"
$5/8'' \times 5/32''$	$13/16'' \times 7/32''$	$1'' \times 1/4''$	$13/16'' \times 17/64''$	$13/8'' \times 19/64''$	$17/32'' \times 11/32''$

Note: For illustrations showing Coarseness of Hand Files see page 15.

## HAND FINISHING FILES

Hand Finishing Files are double cut and are used when a very smooth finish is desired. They are rectangular in section and are parallel in width. Tapered slightly in thickness. Made with two safe edges in 12 and 14-inch lengths in Smooth cut only.



Hand Finishing Smooth

APPROXIMATE SIZES OF FINISHED FILES: 12"— $13/16'' \times 17/64''$ ; 14"— $13/8'' \times 19/64''$

# N I C H O L S O N F I L E C O M P A N Y



## ROUND FILES



Their principal use is to file or enlarge circular openings or to file concave surfaces. Made in Bastard cut in lengths of 4, 6, 7, 8, 10, 12, 14 and 16 inches. In Second Cut and Smooth cuts in lengths of 4, 6, 8, 10, 12 and 14 inches. Round Files are double cut, in Bastard cut from 6" up; in Second Cut from 12". The rest are single cut.



Round Bastard (tapered)

### APPROXIMATE SIZES OF FINISHED FILES

4"	6"	7"	8"	10"	12"	14"	16"
$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{1}{16}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "



DISCONTINUED

Round Blunt Bastard

THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF ROUND FILES

Bastard



4"



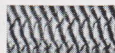
6"



8"



10"



12"



14"



16"

Second Cut



4"



6"



8"



10"



12"



14"



16"

Smooth



4"



6"



8"



10"



12"



14"



16"



# N I C H O L S O N F I L E C O M P A N Y



## SQUARE FILES

Used principally for filing keyways, slots and general surface filing. Double cut on all four sides. Made in Bastard cut in lengths of 4, 6, 8, 10, 12, 14, 16 and 18 inches. In Second Cut and Smooth cuts in lengths of 4, 6, 8, 10, 12 and 14 inches.



Square Bastard

### APPROXIMATE SIZES OF FINISHED FILES

4"	6"	8"	10"	12"	14"	16"	18"
$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "

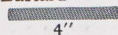


DISCONTINUED

Square Blunt Bastard

THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF SQUARE FILES

Bastard



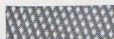
4"



6"



8"



10"



12"

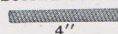


14"



16"

Second Cut



4"



6"



8"



10"



12"

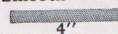


14"



16"

Smooth



4"



6"



8"



10"



12"



14"



16"



## PILLAR FILES



Are of rectangular section (Proportions being 2 to 1). Principally used by machinists and repair men for filing slots and keyways. They are like the Hand File in general shape, and like the Hand File have one edge "safe," or uncut.

Made in Bastard, Second Cut and Smooth cuts in lengths of 6, 8 and 10 inches and in Bastard cut only in 12-inch length.

The grading of cuts according to coarseness is the same as the Square File.



Pillar Bastard

### APPROXIMATE SIZES OF FINISHED FILES

6"	8"	10"	12"
$\frac{7}{16}'' \times \frac{7}{32}''$	$\frac{9}{16}'' \times \frac{9}{32}''$	$1\frac{1}{16}'' \times 1\frac{1}{32}''$	$1\frac{3}{16}'' \times 1\frac{1}{32}''$

## THREE SQUARE FILES

Are of triangular section like Tapers but are double cut, with the corners left sharp. For general use by machinists for filing internal angles, clearing out corners, filing taps, cutters, etc.

Made in Bastard, Second Cut and Smooth cuts, in lengths of 6, 8 and 10 inches.

The grading of cuts according to coarseness is the same as the Square File.



Three Square Bastard

### APPROXIMATE SIZES OF FINISHED FILES

6"	8"	10"
$\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{3}{4}''$





## WARDING FILES



As their name indicates, their principal use is by locksmiths for filing the ward notches in keys. Also suited for filing in narrow spaces where other files would be too thick. Made in lengths of 4, 6, 8 and 10 inches in Bastard, Second Cut and Smooth cuts. All double cut.



Warding Bastard

### APPROXIMATE SIZES OF FINISHED FILES

4"	6"	8"	10"
$\frac{7}{16}'' \times \frac{1}{16}''$	$\frac{5}{8}'' \times \frac{5}{64}''$	$2\frac{5}{32}'' \times \frac{3}{32}''$	$1\frac{5}{16}'' \times \frac{1}{8}''$

## KNIFE FILES

Are of knife blade section. Used principally by tool and die makers on work having acute angles. Made in lengths of 4, 6, 8 and 10 inches, in Bastard, Second Cut and Smooth cuts. All double cut.



Knife Bastard

### APPROXIMATE SIZES OF FINISHED FILES

4"	6"	8"	10"
$1\frac{5}{32}'' \times \frac{7}{64}''$	$1\frac{1}{16}'' \times \frac{5}{32}''$	$\frac{7}{8}'' \times \frac{3}{16}''$	$1\frac{1}{16}'' \times \frac{1}{4}''$



## CABINET RASPS



Used by cabinet makers and woodworkers. The curved side of these rasps is similar to that of Half Round Rasps, but of larger radius.

Cabinet Rasps are made in both Second Cut and Smooth cuts in lengths of 6, 8, 10, 12 and 14 inches.



### APPROXIMATE SIZES OF FINISHED FILES AND RASPS

6"	8"	10"	12"	14"
$2\frac{3}{32}'' \times \frac{3}{16}''$	$1\frac{5}{16}'' \times \frac{1}{4}''$	$1\frac{1}{8}'' \times \frac{9}{32}''$	$1\frac{5}{16}'' \times \frac{11}{32}''$	$1\frac{9}{16}'' \times \frac{13}{32}''$

### THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF CABINET RASPS

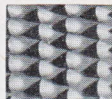
Second Cut



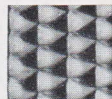
6"



8"



10"



12"



14"

Smooth



6"



8"



10"



12"



14"



# N I C H O L S O N F I L E C O M P A N Y

NICHOLSON  
U.S.A.  
(TRADE MARK)

## LAST AND PATTERN MAKERS' CABINET RASPS

Used by shoe last and pattern makers and for all wood filing when a smooth finish is desired such as in the manufacture of wooden golf club heads.

Pattern Makers' Rasps have cut edges while Last Makers' Rasps and Files have safe edges. All these Rasps and Files have numbers on the tangs for convenience when re-ordering. A complete list of the many types manufactured will be supplied on request.

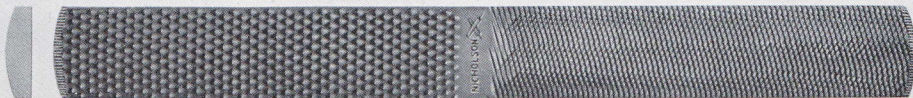
NICHOLSON  
U.S.A.  
(TRADE MARK)



## SHOE RASPS

Last Makers' Cabinet Rasp—Bastard

Made in half round section as illustrated. Half of each surface file cut, the other half having rasp teeth. Made in lengths of 8, 9 and 10 inches.



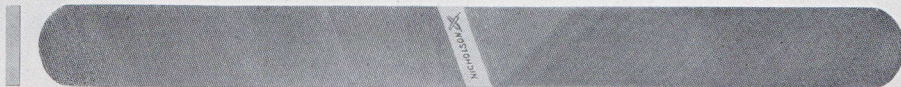
Half Round Shoe Rasp

## APPROXIMATE SIZES OF FINISHED RASPS

8"	9"	10"
$\frac{7}{8}'' \times \frac{7}{32}''$	$3\frac{1}{32}'' \times \frac{1}{4}''$	$1\frac{1}{16}'' \times \frac{9}{32}''$

## PLANER KNIFE FILES

Used for sharpening planer knives and for other similar uses. Made in lengths of 8 and 10 inches. One half of each side is single cut, while the other half is double cut. These files have safe edges.



Planer Knife Files

# N I C H O L S O N F I L E C O M P A N Y



## WOOD RASPS FLAT AND HALF ROUND SECTION



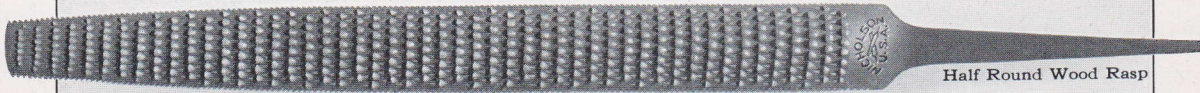
Are used by woodworkers, wheelwrights, plumbers, etc. Made in Bastard and Smooth cuts and of the same sections of steel as Flat and Half Round Files.

Made in Flat sections in lengths of 8, 10, 12, 14 and 16 inches and in Half Round sections in lengths of 6, 8, 10, 12, 14 and 16 inches.

Coarseness of teeth is the same for Flat and Half Round Rasps of the same size.



Flat Wood Rasp



Half Round Wood Rasp

### THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF FLAT AND HALF ROUND WOOD RASPS

Bastard



8"



10"



12"



14"

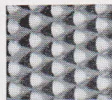


16"

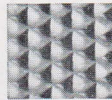
Smooth



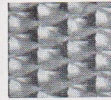
8"



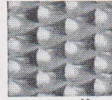
10"



12"



14"



16"

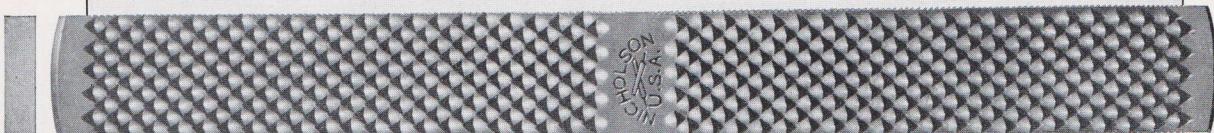




## HORSE RASPS



Horse Rasps are made in two different types, Plain Rasps, which are double-ended, and Tanged Rasps. Both types have Rasp teeth on one side and file teeth on the other. Plain Rasps are made in Regular and Slim patterns. Tanged Rasps are made in Regular and Thin patterns.



### APPROXIMATE SIZES OF FINISHED RASPS

	12"	14"	16"	18"
Plain Rasp	$1\frac{9}{32}'' \times 1\frac{1}{32}''$	$1\frac{17}{32}'' \times \frac{3}{8}''$	$1\frac{23}{32}'' \times \frac{7}{16}''$	$1\frac{19}{32}'' \times 1\frac{13}{32}''$
Plain Rasp—Slim	.....	.....	.....	.....



### APPROXIMATE SIZES OF FINISHED RASPS

	12"	14"
Tanged Rasp	$1\frac{17}{32}'' \times \frac{3}{8}''$	$1\frac{23}{32}'' \times \frac{7}{16}''$
Tanged Rasp—Thin	.....	$1\frac{23}{32}'' \times \frac{23}{64}''$

# N I C H O L S O N F I L E C O M P A N Y



## ROUND WOOD RASPS AND ROUND CABINET RASPS

Used for the same purpose as Regular Wood and Cabinet Rasps in places for which their shape makes them particularly effective. Each is made in one cut only and in lengths of 6, 8, 10, 12 and 14 inches. Made from steel of the same size as Round Files.



Round Wood Rasp



Round Cabinet Rasp

### APPROXIMATE SIZES OF FINISHED RASPS

6"	8"	10"	12"	14"
1/4"	5/16"	3/8"	1/2"	5/8"

## BEAVER CURVED TOOTH FILES

Widely used by the Automobile Manufacturing and Repairing trade on aluminum and sheet steel. Also used on soft metals such as brass and babbitt and often on iron and steel. Because of their curved teeth they free themselves readily of chips. Made in 10, 12 and 14-inch lengths and in three types, Flat Tanged, Half Round Tanged and Flexible. The 12-inch Flexible have countersunk holes approximately 11 inches between centers and the 14-inch have countersunk holes approximately 13 inches between centers.



Flat Tanged Beaver File



Flexible Beaver File



# N I C H O L S O N F I L E C O M P A N Y



## NICHOLSON SUPERIOR MILLED TOOTH FILE

Manufactured by Nicholson File Company for those who require top quality in Milled Curved Tooth Files. In three cuts: Standard, Fine and Smooth. Three commonly used types illustrated below. Complete catalog sheet on request.



Flexible Standard

Especially designed for the Auto Body Building and Repair trade. Being very flexible, they are largely used for fender work and for work on curved surfaces of sheet steel and other metals. Made to fit all standard holders.



Flat Standard (Rigid)

Used on many kinds of metals because of their fast-cutting and self-clearing teeth.



Half Round Standard (Rigid)

Used mostly on bearings and flat and concave surfaces of soft metals.

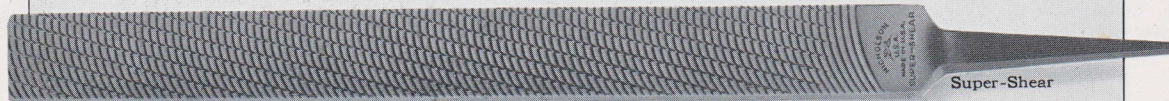


## THE NICHOLSON SUPER-SHEAR



A MILLED CURVED TOOTH FILE THAT SMOOTHS AS IT ROUGHS

The Super-Shear is a "double purpose" Milled Curved Tooth File for use on the flat and convex surfaces of aluminum, brass, babbitt, bronze, copper, magnesium, cast iron and soft metal alloys. Made in one degree of coarseness only in lengths of 8, 10, 12 and 14-inch.



### APPROXIMATE SIZES OF THE SUPER-SHEAR

8"	10"	12"	14"
$1\frac{3}{16}" \times \frac{3}{16}"$	$1" \times \frac{7}{32}"$	$1\frac{7}{32}" \times \frac{9}{32}"$	$1\frac{23}{64}" \times \frac{5}{16}"$

The Curved teeth of the Nicholson Super-Shear are cut in an arc that is "off center" in relation to the axis of the file. This permits the teeth to begin with wide gullets and a right angle—for fast cutting. They become shorter and closer together as they terminate in a long, shearing angle—for producing the smoothing effect. Thus, when a surface is filed with an overlapping stroke in a right-toward-left working direction, the Nicholson Super-Shear "smooths out its tracks as it goes." Practically two files in one!

Fast cutting and smooth finishing in one operation. Easy control of file for accurate work. Easy clearance that saves time and keeps the file efficient.





## FOUNDRIY FILES



Developed by us for snagging castings in Foundries and now widely used for removing fins, sprues and other hard projections from castings, for filing narrow and sharp corners of dies and for many other kinds of rough filing. Teeth made extra strong and rugged to stand severe usage.

Made regularly in Bastard cuts, sizes 8" to 14", in Flat and Half Round Shapes. Each file has "Foundry" stamped on it for identification.



### APPROXIMATE SIZES OF FINISHED FLAT FOUNDRIY FILES

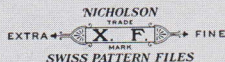
8"	10"	12"	14"
$1\frac{3}{16}" \times 7\frac{1}{32}"$	$1" \times 1\frac{1}{4}"$	$1\frac{3}{16}" \times 1\frac{7}{64}"$	$1\frac{3}{8}" \times 1\frac{9}{64}"$

### APPROXIMATE SIZES OF FINISHED HALF ROUND FOUNDRIY FILES

8"	10"	12"	14"
$\frac{3}{4}" \times 7\frac{1}{32}"$	$1\frac{5}{16}" \times 9\frac{1}{32}"$	$1\frac{1}{8}" \times 1\frac{1}{32}"$	$1\frac{5}{16}" \times 1\frac{1}{32}"$

## FILES FOR STAINLESS STEEL

Nicholson File Company now makes files especially for use on Stainless Steel. These files are made in all types and sizes as our regular purpose files, both in American Pattern and Swiss Pattern. The construction of the teeth on files for Stainless Steel is designed to overcome the abrasive action of these steels on any cutting edge. To order, specify type, size and cut and add "for Stainless Steel" to your specification. Regular list prices. Words "Stainless Steel" are stamped on the tang for identification.



## NICHOLSON X.F. SWISS PATTERN FILES



Nicholson X.F. Swiss Pattern Files are made to more exacting measurements than American Pattern Files. Although some cross sections of both types are similar, the shapes differ. The points of X.F. Swiss Pattern Files are smaller and the tapered files have longer tapers than those of American Pattern Files. Nicholson X.F. Swiss Pattern Files are made in much finer cuts, which vary from No. 00, which is the coarsest to No. 6, the finest.

Our X.F. Swiss Pattern Files are primarily finishing tools, used for removing burrs left over from previous finishing operations, rounding out slots and cleaning out square corners, smoothing up small parts and in fact, doing the final finishing on all sorts of delicate and intricate pieces. The smaller points of these files make them useful for enlarging small holes and shaping and finishing very narrow grooves, slots, notches and keyways.

X.F. Swiss Pattern Files are used by tool and die makers, delicate instrument parts finishers, jewelers, model makers and home craftsmen. In short, everyone who does superfine precision filing will have many uses for X.F. Swiss Pattern Files.

Special care is required in the manufacture of X.F. Swiss Pattern Files. They are made in a separate division of our Providence Factory by a staff specially trained for their work. Anyone who buys X.F. Swiss Pattern Files is assured of highest quality under Nicholson's guarantee of "Twelve Perfect Files in Every Dozen."

ACTUAL COARSENESS OF 6-INCH HAND FILES—CUTS Nos. 00 TO 6



00



0



1



2



3



4



6



# N I C H O L S O N F I L E C O M P A N Y

NICHOLSON  
TRADE MARK  
EXTRA **X F** FINE  
SWISS PATTERN FILES

## HAND FILES\*

NICHOLSON  
TRADE MARK  
EXTRA **X F** FINE  
SWISS PATTERN FILES



Hand No. 00

Hand Files are parallel in width and taper in thickness. The flat sides are double cut. Hand Files in cuts Nos. 00, 0 and 2 are single cut on one edge, the other edge being safe. Hand Files in cuts Nos. 3, 4 and 6 have two safe edges. Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6.

### APPROXIMATE SIZES OF FINISHED FILES

3"	4"	6"	8"	10"	12"
$\frac{7}{16}'' \times \frac{3}{32}''$	$\frac{17}{32}'' \times \frac{1}{8}''$	$\frac{3}{4}'' \times \frac{5}{32}''$	$\frac{29}{32}'' \times \frac{3}{16}''$	$\frac{13}{32}'' \times \frac{7}{32}''$	$\frac{13}{16}'' \times \frac{17}{64}''$

\*6-inch Hand Straight Rowing in cuts Nos. 0, 1, 2 and 4 for corrugating the edges of Barber Shears take same list prices as regular goods. Hand Files finer than No. 2 have two safe edges. Hand Corrugating Files have two safe edges in all cuts.

## PILLAR FILES



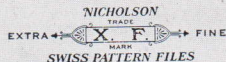
Pillar No. 6

Pillar Files are similar in shape to Hand Files but about two-thirds as wide. Double cut on the two flat sides only, the edges being safe.

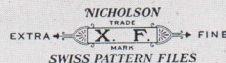
Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6.

### APPROXIMATE SIZES OF FINISHED FILES

3"	4"	6"	8"	10"	12"
$\frac{19}{64}'' \times \frac{3}{32}''$	$\frac{23}{64}'' \times \frac{7}{64}''$	$\frac{31}{64}'' \times \frac{5}{32}''$	$\frac{39}{64}'' \times \frac{7}{32}''$	$\frac{47}{64}'' \times \frac{15}{64}''$	$\frac{53}{64}'' \times \frac{17}{64}''$



## PILLAR NARROW FILES



Pillar Narrow No. 2

Pillar Narrow Files are similar to Pillar Files, but narrower for the same length. Double cut on the two flat sides only, the edges being safe.

Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6.

### APPROXIMATE SIZES OF FINISHED FILES

3"	4"	6"	8"	10"	12"
$\frac{7}{32}'' \times \frac{5}{64}''$	$\frac{17}{64}'' \times \frac{7}{64}''$	$\frac{23}{64}'' \times \frac{5}{32}''$	$\frac{15}{32}'' \times \frac{3}{16}''$	$\frac{9}{16}'' \times \frac{1}{4}''$	$\frac{41}{64}'' \times \frac{5}{16}''$

## PILLAR EXTRA NARROW FILES



Pillar Extra Narrow No. 4

Pillar Extra Narrow Files similar to Pillar and Pillar Narrow Files but narrower than the Pillar Narrow for their length.

Cut on the two flat sides only, the edges being safe.


Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6.

### APPROXIMATE SIZES OF FINISHED FILES

3"	4"	6"	8"	10"	12"
$\frac{9}{64}'' \times \frac{3}{32}''$	$\frac{3}{16}'' \times \frac{7}{64}''$	$\frac{1}{4}'' \times \frac{5}{32}''$	$\frac{5}{16}'' \times \frac{3}{16}''$	$\frac{3}{8}'' \times \frac{7}{32}''$	$\frac{7}{16}'' \times \frac{1}{4}''$



# N I C H O L S O N F I L E C O M P A N Y

NICHOLSON  
TRADE  
EXTRA  FINE  
SWISS PATTERN FILES

## EQUALING FILES

NICHOLSON  
TRADE  
EXTRA  FINE  
SWISS PATTERN FILES



Equaling No. 0

Equaling Files are parallel in both width and thickness throughout their length. Double cut on the two flat sides and single cut on both edges.  
Made in lengths of 3, 4, 6 and 8 inches and in cuts Nos. 00, 0, 1, 2 and 4.

### APPROXIMATE SIZES OF FINISHED FILES

3"	4"	6"	8"
$\frac{5}{16}'' \times \frac{1}{16}''$	$1\frac{3}{32}'' \times \frac{5}{64}''$	$1\frac{9}{32}'' \times \frac{7}{64}''$	$\frac{3}{4}'' \times \frac{9}{64}''$

Equaling Files may be obtained in minimum quantities of one dozen without extra charge in the following B & S gauges:

3"	4"	6"	8"
18 and 20 gauge	16, 18 and 20 gauge	10, 12 and 14 gauge	10 gauge

## SQUARE FILES

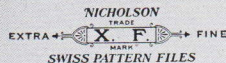


Square No. 2

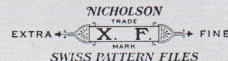
Square Files are square in section and taper on all four sides to a fine point. Double cut on all four sides. One safe side when so ordered. Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3 and 4.

### APPROXIMATE WIDTH OF FINISHED FILES

3"	4"	6"	8"	10"	12"
$\frac{5}{64}''$	$\frac{1}{8}''$	$\frac{3}{16}''$	$\frac{1}{4}''$	$1\frac{1}{32}''$	$\frac{7}{16}''$



## WARDING FILES



Warding No. 00

Warding Files are rectangular in section with thickness approximately one-eighth of their width, tapering to a point in width and tapering slightly in thickness. Double cut on the two flat sides and single cut on both edges. Made in lengths of 3, 4, 6, 8 and 10 inches and in cuts Nos. 00, 0, 1, 2 and 4.

### APPROXIMATE SIZES OF FINISHED FILES

3"	4"	6"	8"	10"
$\frac{3}{8}'' \times \frac{3}{64}''$	$\frac{7}{16}'' \times \frac{3}{64}''$	$1\frac{9}{32}'' \times \frac{5}{64}''$	$\frac{3}{4}'' \times \frac{3}{32}''$	$1\frac{5}{16}'' \times \frac{7}{64}''$

Warding Files may be obtained in minimum quantities of one dozen without extra charge in the following B & S gauges:

3"	4"	6"	8"	10"
18, 20 and 22 gauge	14, 16, 18 and 20 gauge	11, 13, 14 and 16 gauge	10 gauge	8 gauge

## CROCHET FILES



Crochet No. 0

Crochet Files taper to a point in both width and thickness and are made with both edges well rounded. Double cut on the flat sides and on both edges.

Made in lengths of 3, 4, 6, 8 and 10 inches and in cuts Nos. 00, 0, 1, 2 and 4.

### APPROXIMATE SIZES OF FINISHED FILES


3"	4"	6"	8"	10"
$\frac{1}{4}'' \times \frac{5}{64}''$	$\frac{3}{8}'' \times \frac{3}{32}''$	$\frac{1}{2}'' \times \frac{1}{8}''$	$\frac{5}{8}'' \times \frac{5}{32}''$	$\frac{3}{4}'' \times \frac{3}{16}''$



# N I C H O L S O N F I L E C O M P A N Y

NICHOLSON  
TRADE MARK  
EXTRA  FINE  
SWISS PATTERN FILES

## KNIFE FILES

NICHOLSON  
TRADE MARK  
EXTRA  FINE  
SWISS PATTERN FILES



Knife No. 2

Knife Files are made from steel that is knife shaped, the included angle of the sharp edge being 10°. They taper in width and thickness to the point. Double cut on both flat sides and single cut on both edges. Made in lengths of 3, 4, 5, 6 and 8 inches and in cuts Nos. 00, 0, 1, 2, 3 and 4.

### APPROXIMATE WIDTH OF FINISHED FILES

3"	4"	5"	6"	8"
3/8"	15/32"	9/16"	1 1/16"	7/8"

## BARRETTE FILES




Barrette No. 0

Barrette Files are flat on one side, the back being beveled at both edges as indicated by the cross section, the included angle being 33°. Double cut on the wide flat side only, the back and the beveled edges being safe. Made in lengths of 3, 4, 6 and 8 inches and in cuts Nos. 00, 0, 1, 2 and 4.


### APPROXIMATE WIDTH OF FINISHED FILES

3"	4"	6"	8"
1 1/32"	1/2"	2 1/32"	7/8"

# N I C H O L S O N F I L E C O M P A N Y

NICHOLSON  
TRADE  
EXTRA  FINE  
MARK  
SWISS PATTERN FILES

## THREE SQUARE FILES

NICHOLSON  
TRADE  
EXTRA  FINE  
MARK  
SWISS PATTERN FILES



Three Square No. 0

Three Square Files are triangular in section with angles of 60°, taper to a point and have sharp corners. Double cut on the three sides and single cut on the edges.  
Made in lengths of 3, 4, 5, 6, 8 and 10 inches and in cuts Nos. 00, 0, 1, 2, 3 and 4.

### APPROXIMATE WIDTH OF FINISHED FILES

3"	4"	5"	6"	8"	10"
$\frac{5}{32}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "

## METAL SAW FILES



Metal Saw No. 2

Metal Saw Files are the same in section as Three Square Files but are parallel throughout their length. Double cut on the three sides and single cut on the edges.  
Made in lengths of 3, 4, 5, 6 and 8 inches and in cuts Nos. 0, 2 and 4.

### APPROXIMATE WIDTH OF FINISHED FILES

3"	4"	5"	6"	8"
$\frac{5}{32}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "



# N I C H O L S O N F I L E C O M P A N Y

NICHOLSON  
TRADE  
EXTRA → **X F** → FINE  
MARK  
SWISS PATTERN FILES

## SLITTING FILES

NICHOLSON  
TRADE  
EXTRA → **X F** → FINE  
MARK  
SWISS PATTERN FILES



Slitting No. 0

Slitting Files are made of double angular section, the included angle between the sides being approximately 15°. Double cut on the four sides and single cut on the two sharp edges.

Made in lengths of 4 and 6 inches and in cuts Nos. 00, 0 and 2.

### APPROXIMATE WIDTH OF FINISHED FILES

4"	6"
$\frac{7}{16}$ "	$1\frac{19}{32}$ "

## HALF ROUND RING FILES




Half Round Ring No. 00

For use by jewelers, particularly ring manufacturers, Half Round Ring Files are 6 inches in length and are made in cuts Nos. 00, 0, 1, 2 and 4.

The dimensions of the finished files are  $2\frac{9}{64}$ " x  $\frac{7}{64}$ ".

# N I C H O L S O N F I L E C O M P A N Y

NICHOLSON  
TRADE  
EXTRA  FINE  
MARK  
SWISS PATTERN FILES

## HALF ROUND FILES

NICHOLSON  
TRADE  
EXTRA  FINE  
MARK  
SWISS PATTERN FILES



Half Round No. 00

Half Round Files taper in width and thickness to the point. Double cut on both flat and half round sides. Made in lengths of 3, 4, 5, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6.

### APPROXIMATE SIZES OF FINISHED FILES

3"	4"	5"	6"	8"	10"	12"
19 <sup>1</sup> / <sub>64</sub> " x 3 <sup>1</sup> / <sub>32</sub> "	3 <sup>3</sup> / <sub>8</sub> " x 7 <sup>1</sup> / <sub>64</sub> "	29 <sup>1</sup> / <sub>64</sub> " x 7 <sup>1</sup> / <sub>64</sub> "	33 <sup>3</sup> / <sub>64</sub> " x 9 <sup>1</sup> / <sub>64</sub> "	45 <sup>1</sup> / <sub>64</sub> " x 11 <sup>1</sup> / <sub>64</sub> "	15 <sup>1</sup> / <sub>16</sub> " x 17 <sup>1</sup> / <sub>64</sub> "	17 <sup>1</sup> / <sub>64</sub> " x 19 <sup>1</sup> / <sub>64</sub> "

## CROSSING FILES



Crossing No. 4

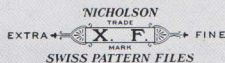
Crossing Files are made of double circular section, one side having the same radius as the Half Round File and the other side having a flatter curve or larger radius. They taper to a point in both width and thickness. Double cut on both sides. Made in lengths of 3, 4, 6, 8 and 10 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6.

### APPROXIMATE SIZES OF FINISHED FILES

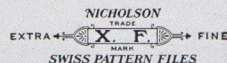
3"	4"	6"	8"	10"
5 <sup>1</sup> / <sub>16</sub> " x 3 <sup>1</sup> / <sub>32</sub> "	7 <sup>1</sup> / <sub>16</sub> " x 7 <sup>1</sup> / <sub>64</sub> "	5 <sup>1</sup> / <sub>8</sub> " x 3 <sup>1</sup> / <sub>16</sub> "	13 <sup>1</sup> / <sub>16</sub> " x 15 <sup>1</sup> / <sub>64</sub> "	61 <sup>1</sup> / <sub>64</sub> " x 5 <sup>1</sup> / <sub>16</sub> "



# N I C H O L S O N F I L E C O M P A N Y



## ROUND FILES



Round No. 2

Round Files taper throughout their length to a fine point. Double cut.

Made in lengths of 3, 4, 5, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6.

### APPROXIMATE WIDTH OF FINISHED FILES

3"	4"	5"	6"	8"	10"	12"
$\frac{5}{64}$ "	$\frac{1}{8}$ "	$\frac{5}{32}$ "	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{21}{64}$ "	$\frac{27}{64}$ "

## ROUND STRAIGHT FILES



Round Straight No. 0

Round Straight Files are made of the same sizes of steel as Round Files but are parallel throughout their length. Double cut.

Made in lengths of 4, 5, 6 and 8 inches and in cuts Nos. 00, 0, 2 and 4.

### APPROXIMATE WIDTH OF FINISHED FILES

4"	5"	6"	8"
$\frac{1}{8}$ "	$\frac{5}{32}$ "	$\frac{3}{16}$ "	$\frac{1}{4}$ "

The diameters given above are regular, and are furnished unless the customer specifies otherwise. Round Straight Files are also furnished in the following diameters, in minimum quantities of one dozen of the same size and cut, at no advance over regular prices: 4"— $\frac{1}{16}$ ",  $\frac{3}{32}$ "; 5"— $\frac{3}{32}$ ",  $\frac{1}{8}$ ",  $\frac{3}{16}$ "; 6"— $\frac{1}{8}$ ",  $\frac{5}{32}$ ",  $\frac{7}{32}$ ",  $\frac{1}{4}$ ",  $\frac{3}{8}$ "; 8"— $\frac{3}{16}$ ",  $\frac{7}{32}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ".

# N I C H O L S O N F I L E C O M P A N Y

NICHOLSON  
TRADE  
EXTRA **X F** FINE  
MARK  
SWISS PATTERN FILES

## PIPPIN FILES

NICHOLSON  
TRADE  
EXTRA **X F** FINE  
MARK  
SWISS PATTERN FILES



Pippin No. 0

Pippin Files have rounded backs tapering to a sharp edge and they taper in both width and thickness to a point. Double cut. These files are sometimes called "Apple Seed" files. Made in lengths of 4, 6 and 8 inches and in cuts Nos. 00, 0, 1 and 2.

### APPROXIMATE SIZES OF FINISHED FILES

4"	6"	8"
$\frac{9}{32}'' \times \frac{1}{8}''$	$\frac{3}{8}'' \times \frac{5}{32}''$	$\frac{1}{2}'' \times \frac{3}{16}''$

## PILLAR TESTING FILES



6-inch Pillar Testing File No. 0

Testing Files are made especially to be used as standards for testing the hardness of tempered tools or metals. Double cut with a special form and style of tooth particularly adapted to the very severe work for which these files are designed.


Made in Pillar section 6 inches in length, cuts Nos. 0 and 1; and in Pillar Narrow section 8 inches in length, cuts Nos. 0 and 1.

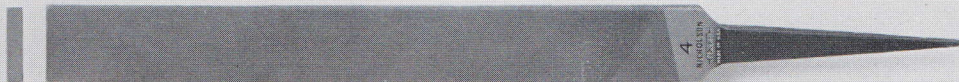


# N I C H O L S O N   F I L E   C O M P A N Y

NICHOLSON  
TRADE  
EXTRA  FINE  
MARK  
SWISS PATTERN FILES

## CORRUGATING FILES

NICHOLSON  
TRADE  
EXTRA  FINE  
MARK  
SWISS PATTERN FILES



6-inch Hand Corrugating File No. 4

Corrugating files are made for corrugating the edges of Barbers' Shears and other edged tools.

6" Hand Corrugating files, also called Straight Rowing files, are made in cuts Nos. 0, 2 and 4. They are designed to corrugate the blade when stroked straight across or, in other words, at right angles to the blade.

6" Pillar No. 2 files are also widely used for corrugating. These files will corrugate when allowed to glide to the left from the point toward the heel of the blade.

## SCREW HEAD FILES



Screw Head Plain




Screw Head Tanged

Screw Head Files are made for enlarging and clearing out the slots in the heads of screws. Used principally by watch makers and jewelers. They are made in two styles, Plain and Tanged. Made in one size only, 3 inches long and in one cut.

# N I C H O L S O N F I L E C O M P A N Y

NICHOLSON  
TRADE  
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SWISS PATTERN FILES

## JOINT FILES

NICHOLSON  
TRADE  
MARK  
EXTRA  FINE  
SWISS PATTERN FILES



Round Edge Joint Thick No. 0



Square Edge Joint Thick No. 2

Joint Files are parallel in width and thickness and are made with round or square edges, thick or thin. Double cut on the edges only, the sides being safe.  
Made in lengths of 4 and 6 inches and in cuts Nos. 0 and 2.

### APPROXIMATE SIZES OF FINISHED FILES

	4"	6"
Thick	$1\frac{3}{32}'' \times \frac{5}{64}''$	$1\frac{9}{32}'' \times \frac{7}{64}''$
	4"	6"
Thin	$1\frac{3}{32}'' \times \frac{3}{64}''$	$1\frac{9}{32}'' \times \frac{5}{64}''$

JOINT FILES WITH ROUND EDGE are made in the following B & S gauges, at regular prices:

4"	6"
9 to 26 gauge	10, 12, 14 and 16 gauge


JOINT FILES WITH SQUARE EDGE are made in the following B & S gauges, at regular prices:

4"	6"
16, 18 and 20 gauge	10, 12, 14 and 16 gauge



NICHOLSON  
TRADE  
EXTRA  FINE  
MARK  
SWISS PATTERN FILES

## 3 1/2" DIE SINKERS FILES

NICHOLSON  
TRADE  
EXTRA  FINE  
MARK  
SWISS PATTERN FILES

FLAT—7/32" x 3/32"

AURIFORM—1 3/64" x 3/32"

OVAL 1 SHARP EDGE—7/32" x 7/64"

OVAL—7/32" x 7/64"

HALF ROUND—1/4" x 1/8"

ROUND—1/8"

KNIFE—9/32" x 5/64" x 1/64"

FLAT 2 ROUND EDGES (CROCHET)—1 1/64" x 5/64"

FLAT 1 SAFE EDGE—3/16" x 5/64"

LOZENGE—1 1/64" x 9/64"

SQUARE—1/8" x 1/8"

THREE SQUARE—7/32"


Die Sinkers Files are designed for die sinkers for dressing and finishing dies of all kinds.

They are made in twelve shapes as illustrated, 3 1/2 inches long, and in cuts Nos. 0, 1 and 2.

In assorted sets they are supplied in boxes.

NICHOLSON  
TRADE  
EXTRA  FINE  
MARK  
SWISS PATTERN FILES

## 5 1/2" SQUARE HANDLE NEEDLE FILES

NICHOLSON  
TRADE  
EXTRA  FINE  
MARK  
SWISS PATTERN FILES

SLITTING

FLAT

CROSSING

KNIFE

SQUARE

ROUND

EQUALING

JOINT—2 Round Edges

HALF ROUND BLUNT

HALF ROUND

BARRETTE

THREE SQUARE


Square Handle Needle or Escapement Files are made especially for watch and clock makers.

They are made in twelve different shapes as illustrated, in one size only, 5 1/2 inches over-all, and in cuts Nos. 0, 2, 4 and 6.




NICHOLSON  
TRADE MARK  
EXTRA  FINE  
SWISS PATTERN FILES


## ROUND HANDLE NEEDLE FILES WITH KNURLED HANDLES

NICHOLSON  
TRADE MARK  
EXTRA  FINE  
SWISS PATTERN FILES

●  ROUND


◁  HALF ROUND

|  FLAT

◁  CROSSING

▼  KNIFE

■  SQUARE

◁  THREE SQUARE

|  EQUALING

◁  BARRETTE

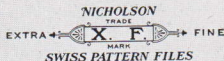
|  JOINT—2 Round Edges

◁  SLITTING

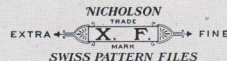
◁  MARKING

Round Handle Needle Files are used principally by jewelers, die makers, watchmakers and fine toolmakers. They are made in twelve different shapes as illustrated, in over-all lengths of 4", 5½" and 6¼" and in cuts Nos. 0, 2, 4 and 6. In 4" length Oval will be furnished instead of Crossing.

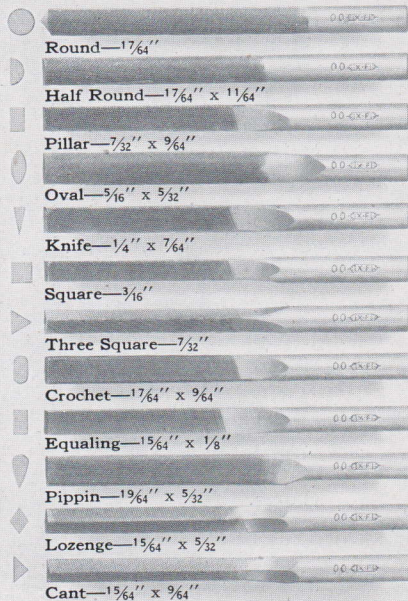
These files have Knurled Handles as illustrated and when purchased in assorted sets are supplied in boxes.



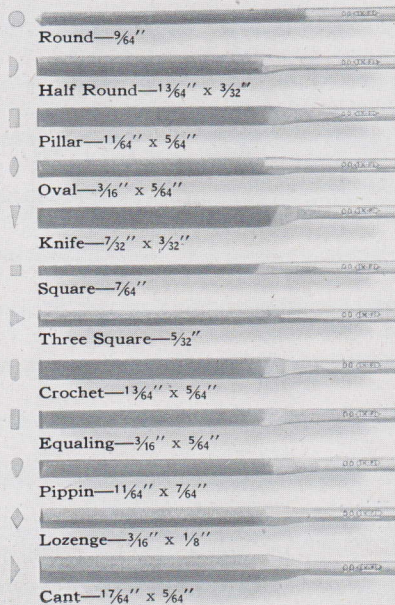
## 3 1/4" BENCH FILING MACHINE FILES



### 1/4" ROUND SHANK

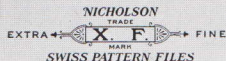


### 1/8" ROUND SHANK

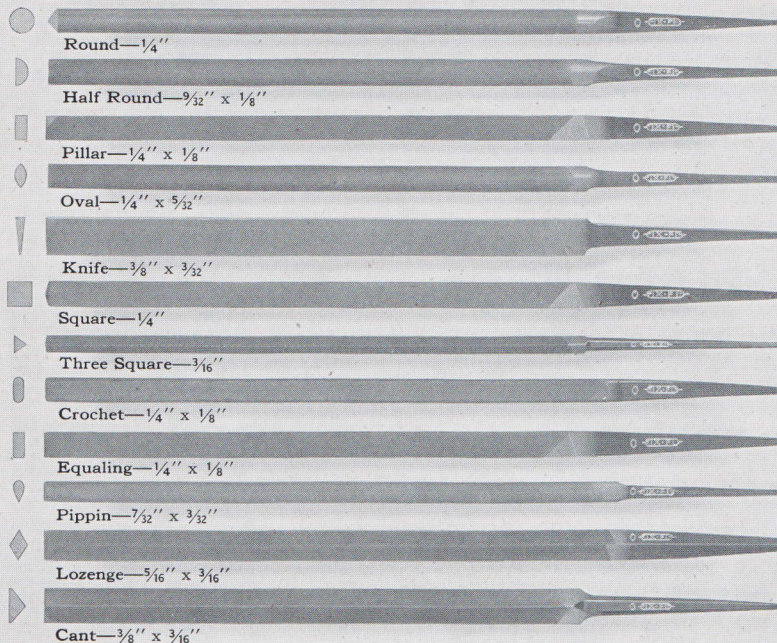
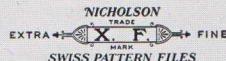


Bench Filing Machine Files are designed to cut on downward stroke and are for use in machines for filing dies and patterns. They are 3 1/4" over-all and have 1/4" or 1/8" Round shanks. Made in twelve different shapes as illustrated. When purchased in assorted sets these files are supplied in boxes. Made in cuts Nos. 00, 0 and 2.





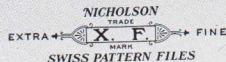
## 5" PARALLEL MACHINE FILES



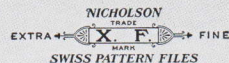
Parallel Machine Files are made for use in filing machines.

Made in twelve different shapes as illustrated, 5 inches long exclusive of the tang. Made in cuts Nos. 00, 0 and 2. Made to file on the upward stroke.

# N I C H O L S O N F I L E C O M P A N Y




## 8" PARALLEL MACHINE FILES




8" Parallel Machine Files are made for Filing Machines of the Oliver Type, made in twelve different shapes as illustrated, 8" over-all and in cuts Nos. 00, 0 and 2, designed to file on the downward stroke. Supplied in assortments or in any quantity of any shape and size. Prices on request.

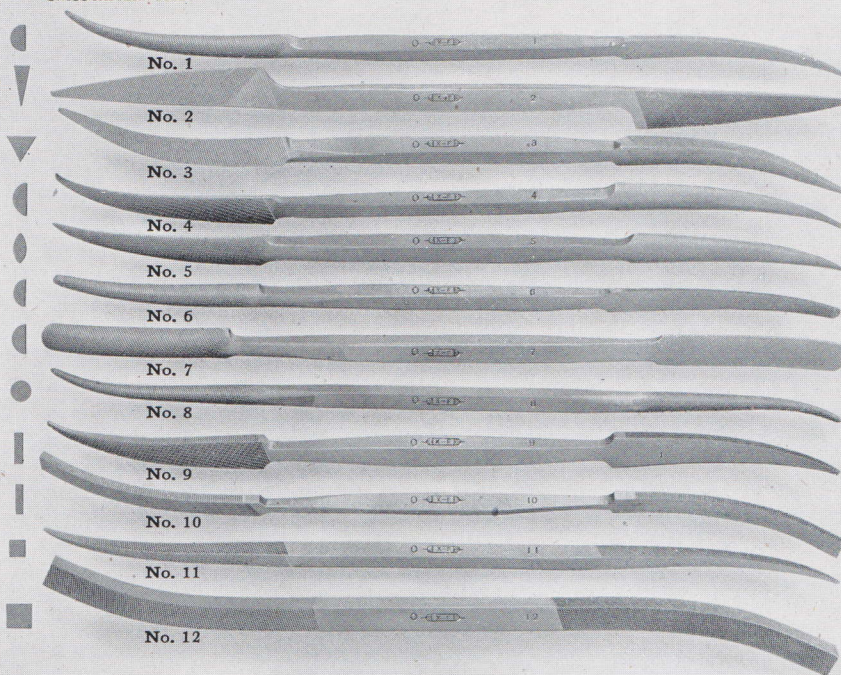
		00-00000	Round— $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ "
		01-00000	Half Round— $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ "
		02-00000	Pillar— $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ "
		03-00000	Oval— $1\frac{1}{32}$ "
		04-00000	Knife— $1\frac{5}{32}$ "
		05-00000	Square— $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ "
		06-00000	Crochet— $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ "
		07-00000	Equaling— $\frac{3}{8}$ "
		08-00000	Three Square— $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ "
		09-00000	Pippin— $1\frac{9}{64}$ "
		10-00000	Lozenge— $1\frac{1}{32}$ "
		11-00000	Cant— $1\frac{1}{32}$ "



NICHOLSON  
TRADE  
EXTRA  FINE  
MARK  
SWISS PATTERN FILES

## 7½" SILVERSMITHS RIFFLERS


NICHOLSON  
TRADE  
EXTRA  FINE  
MARK  
SWISS PATTERN FILES

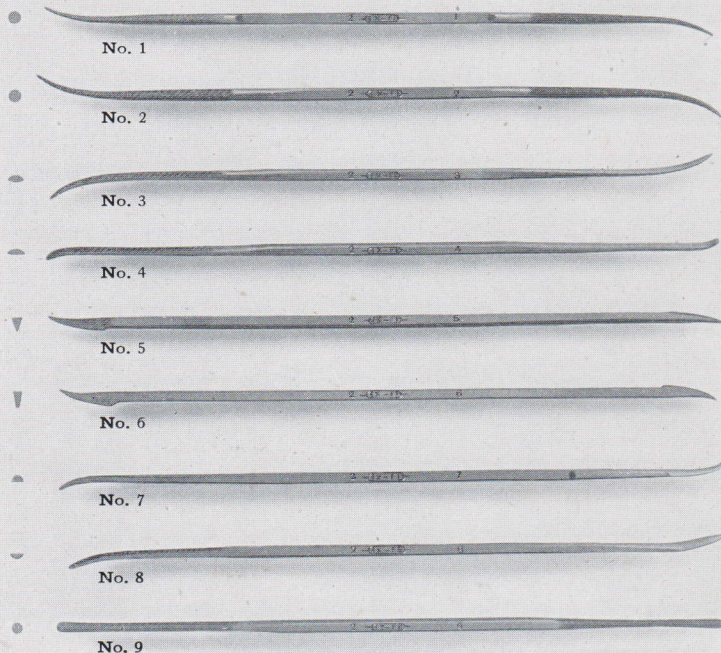


Silversmiths Rifflers are made in 7½" length only, in twelve shapes as illustrated, and in cuts Nos. 0 and 2. May be purchased in assortments or in any quantity of each shape.

NICHOLSON  
TRADE MARK  
EXTRA  FINE  
SWISS PATTERN FILES


## DIE SINKERS RIFFLERS

NICHOLSON  
TRADE MARK  
EXTRA  FINE  
SWISS PATTERN FILES



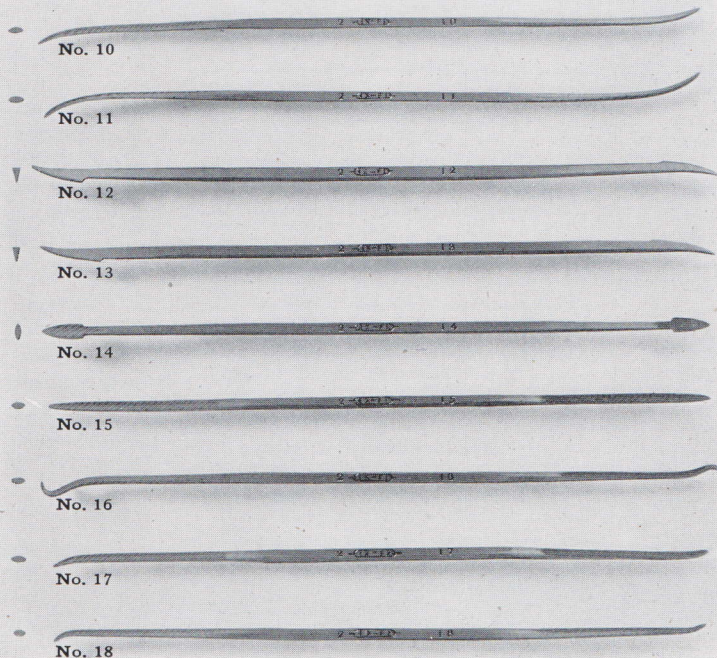
Die Sinkers Riffilers are made in  $6\frac{1}{2}$ " length and in cuts Nos. 0, 2 and 4. These Riffilers are made in shapes Nos. 1 to 18 as illustrated on this and the following page and may be obtained in an assortment of one each of these eighteen shapes or in any quantity of each shape.



NICHOLSON  
TRADE  
EXTRA  FINE  
MARK  
SWISS PATTERN FILES


## DIE SINKERS RIFFLERS

NICHOLSON  
TRADE  
EXTRA  FINE  
MARK  
SWISS PATTERN FILES




Die Sinkers Riffilers are made in  $6\frac{1}{2}$ " length and in cuts Nos. 0, 2 and 4. These Riffilers are made in shapes Nos. 1 to 18 as illustrated on this and the preceding page and may be obtained in an assortment of one each of these eighteen shapes or in any quantity of each shape.

# N I C H O L S O N F I L E C O M P A N Y

NICHOLSON  
TRADE MARK  
EXTRA  FINE  
SWISS PATTERN FILES

## 3" BROACH FILES

BROACH FILES NOS. 65 TO 40 STEEL WIRE GAUGE

NICHOLSON  
TRADE MARK  
EXTRA  FINE  
SWISS PATTERN FILES

Gauge	Diam.
65	.035"
64	.036"
63	.037"
62	.038"
61	.039"
60	.040"
59	.041"
58	.042"
57	.043"
56	.0465"
55	.052"
54	.055"
53	.0595"

Gauge	Diam.
52	.0635"
51	.067"
50	.070"
49	.073"
48	.076"
47	.0785"
46	.081"
45	.082"
44	.086"
43	.089"
42	.0935"
41	.096"
40	.098"

Broach Files are made in round section, parallel throughout their lengths.

Made in one length only, 3 inches over-all and in one cut, which is approximately the same as the cut on a 3" Round No. 0.





## TUNGSTEN AND CONTACT POINT FILES



Nicholson Tungsten Point File



Nicholson Contact Point File

Nicholson Tungsten Point Files are for dressing distributor points that are tipped with Tungsten, Iridium or other similar metals. These Files are  $5\frac{1}{4}$ " over-all and are double cut. They have a chisel tip to conveniently enter slots or gaps and the extreme end of the handle is a thickness gauge for Spark Plugs. Supplied with Orange Handles.

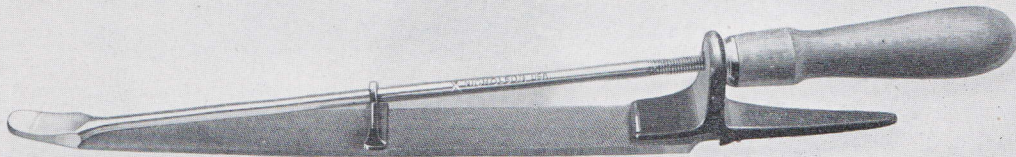
Nicholson Contact Point Files are for cleaning dirt and corrosion from contact points and spark gaps of magnetos, coils, electric bells, switches, etc. These files are  $5\frac{1}{4}$ " long and are also double cut.

## NICHOLSON TOOLS AND SPECIALTIES

### SURFACE FILE HOLDER

The Surface File Holder is designed to hold files for service in surface filing and has the added advantage of enabling the user to give convexity to the working face of the file.

Made in two sizes, No. 4 for files 12 and 14 inches long, and No. 5 for files 14 and 16 inches long.





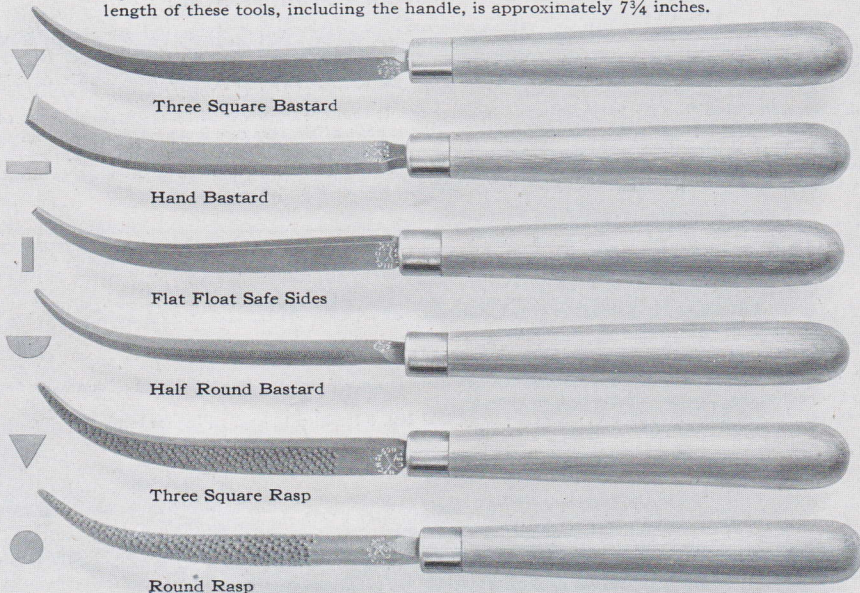
## NICHOLSON TOOLS AND SPECIALTIES

## BENT RIFFLERS HANDLED



Bent Rifflers are used principally by Wood Carvers, Metal and Stone Workers for shaping and finishing in and about the many irregular places of Pattern Work.

They are made in six different shapes and styles of cuts as illustrated. The over-all length of these tools, including the handle, is approximately 7 $\frac{3}{4}$  inches.







## NICHOLSON TOOLS AND SPECIALTIES

## MACHINISTS SCRAPERS



Machinists Scrapers are made in six shapes as illustrated which are sufficiently varied to make them adaptable to a wide range of work. They are furnished "dead hard." The over-all length of these tools including the handle is approximately 9¼ inches.



Three Square—4" x 3/8", 60° Angle



Cant Blunt—4" x 17/32", 110° Angle



Half Round Blunt—4" x 19/32" x 5/32"



Round Blunt—4" x 11/32"



Mill Blunt—4" x 19/32" x 3/32"



Three Square Blunt—4" x 3/8", 60° Angle

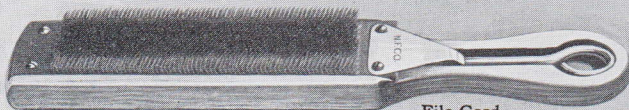


## NICHOLSON TOOLS AND SPECIALTIES

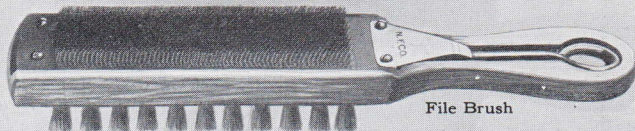


## FILE CLEANERS

These File Cleaners are made in two styles as illustrated. The File Card with Scorer for more general use and the File Brush (combining the Brush, Card and Scorer) for use especially on the finer cut files. The Scorer is made of soft iron and is used to remove the pins which fill up and clog the teeth of files causing scratches in the work if not removed. The over-all length of these Cleaners is 10 inches.



File Card



File Brush



## NICHOLSON TOOLS AND SPECIALTIES

### METAL FERRULED HANDLES

These handles have very strong Metal Ferrules. They are made from seasoned white Birch, shaped to fit the hand and coated with shellac.

**SIZE No. 00** is for 16" files but may be used on some 14" files such as Hand and Half Round or other files having large tangs.

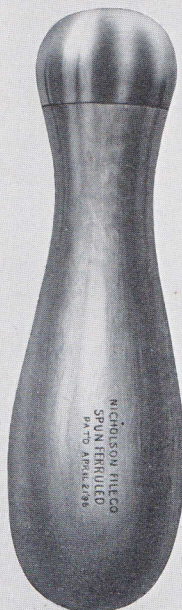
**SIZE No. 0** is for 14" files such as Flat, Mill, Round, Square, Three Square, Pillar and for 12" Hand, Half Round and Pillar Files.

**SIZE No. 1** will fit many of the 10" and 12" files such as 10" Hand, Half Round, Pillar, 10" and 12" Warding, and 12" Mill, Flat, Round, Square, Three Square and Knife Files.

**SIZE No. 2** is used on a variety of 8" to 10" files including 8" Hand, Half Round, 8" and 10" Taper and Three Square, 9" and 10" Flat and 10" Mill, Round and Square Files.

**SIZE No. 3** is for 6" to 8" files and will fit such files as 6" and 7" Hand, Half Round, Taper, Three Square, 6" and 8" Flat, 7" and 8" Mill, Pillar and Warding and 8" Round and Square.

**SIZE No. 4** is for files 6" and smaller but is also used on some longer files such as 7" Extra Slim, 7" Round and Square and 8" Double Extra Slim Files.



**Metal Ferruled  
Handle No. 0**

#### APPROXIMATE SIZES IN INCHES

No. 00	No. 0	No. 1	No. 2	No. 3	No. 4
5 7/8" x 1 5/8"	5 1/2" x 1 3/16"	5 1/8" x 1 3/8"	4 7/8" x 1 1/4"	4 1/2" x 1 1/8"	4" x 7/8"

# N I C H O L S O N F I L E C O M P A N Y

## ALPHABETICAL INDEX

The figure in the "inches" column indicates that files of that length and shorter are packed one dozen in a box. All over that length are packed six in a box.

	Inches	Page		Inches	Page
Aluminum Files, Type A . . . . .	8	19	File Cleaners: Cards & Brushes (½ doz.) . . . . .	60	60
Aluminum Files, Nos. 75 and 76 (½ doz.) . . . . .	20	20	File Handles (1 doz.) . . . . .	61	61
Armory Cut Files No. 204, Flat (½ doz.) . . . . .	20	20	File Holders (1 only) . . . . .	57	57
Bandsaw Blunt Regular . . . . .	8	12	Flat Files . . . . .	8	14
Bandsaw Blunt Slim (1 doz.) . . . . .	12	12	Flat Aluminum Type A . . . . .	8	19
Bandsaw Taper Regular (1 doz.) . . . . .	12	12	Flat Aluminum Nos. 75 and 76 (½ doz.) . . . . .	20	20
Bandsaw Taper Slim (1 doz.) . . . . .	12	12	Flat Armory Cut Files No. 204 (½ doz.) . . . . .	20	20
Barrette (X.F.) . . . . .	6	39	Flat Brass Files . . . . .	8	18
Beaver Curved Tooth (½ doz.) . . . . .	30	30	Flat Lead Float Files . . . . .	8	14
Bench Filing Machine Files (X.F.) (1 doz.) . . . . .	50	50	Flat Long Angle Lathe Files . . . . .	8	19
Bent Riffers (½ doz.) . . . . .	58	58	Flat Shear Tooth Files . . . . .	8	18
Body Files (See "Beaver" and "Superior") . . . . .			Flat Tanged Beaver (½ doz.) . . . . .	30	30
Brass Files . . . . .	8	18	Flat Tanged Superior . . . . .	8	31
Broach Files (X.F.) (1 doz.) . . . . .	56	56	Flat Wood Rasps . . . . .	8	28
Brushes, File (½ doz.) . . . . .	60	60	Flexible Beaver (½ doz.) . . . . .	30	30
Cabinet Rasps . . . . .	8	26	Flexible Superior . . . . .	10	31
Cabinet Rasps & Files, Last Makers . . . . .	8	27	Foundry Files . . . . .	33	33
Cabinet Rasps, Pattern Makers . . . . .	8	27	Half Round . . . . .	8	16
Cabinet Rasps, Round . . . . .	10	30	Half Round (X.F.) . . . . .	6	42
Cantsaw Files . . . . .	10	13	Half Round Aluminum Type A . . . . .	8	19
Cards, File (½ doz.) . . . . .	60	60	Half Round Brass Files . . . . .	8	18
Contact Point Files . . . . .	57	57	Half Round Lead Float Files . . . . .	8	16
Corrugating (X.F.) (1 doz.) . . . . .	45	45	Half Round Ring Files (X.F.) (1 doz.) . . . . .	41	41
Crochet (X.F.) . . . . .	6	38	Half Round Shoe Rasps (½ doz.) . . . . .	27	27
Crosscut . . . . .	10	13	Half Round Tanged Beaver (½ doz.) . . . . .	30	30
Crosscut, Special . . . . .	10	9	Half Round Tanged Superior . . . . .	8	31
Crossing (X.F.) . . . . .	6	42	Half Round Wood Rasps . . . . .	8	28
Die Sinkers Files (X.F.) (1 doz.) . . . . .	47	47	Hand . . . . .	8	21
Die Sinkers Riffers (1 doz.) . . . . .	54, 55	54, 55	Hand (X.F.) . . . . .	6	35
Doctor Blade Files (½ doz.) . . . . .	20	20	Hand Corrugating (1 doz.) . . . . .	45	45
Double Enders (1 doz.) . . . . .	11	11	Hand Finishing (½ doz.) . . . . .	21	21
Double Extra Slim Tapers (1 doz.) . . . . .	11	11	Handles, Metal Ferruled (1 doz.) . . . . .	61	61
Drill or Joint Files (1 doz.) . . . . .	46	46	Handsaw Blunt Extra Slim (1 doz.) . . . . .	12	12
Equaling (X.F.) . . . . .	6	37	Handsaw Blunt Regular (1 doz.) . . . . .	12	12
Escapement Files (1 doz.) . . . . .	48	48	Handsaw Blunt Slim (1 doz.) . . . . .	12	12
Extra Slim Tapers (1 doz.) . . . . .	11	11	Horse Rasps, Plain (½ doz.) . . . . .	29	29
			Horse Rasps, Plain Slim (½ doz.) . . . . .	29	29
			Horse Rasps, Tanged (½ doz.) . . . . .	29	29
			Horse Rasps, Tanged Thin (½ doz.) . . . . .	29	29



# N I C H O L S O N   F I L E   C O M P A N Y

## ALPHABETICAL INDEX—Continued

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Metal Saw (X.F.)	6	40	Round Handle Needle Files (X.F.) (1 doz.)		49
Mill	10	8	Round Straight (X.F.) (1 doz.)		43
Mill Blunt	10	9	Round Wood Rasps	10	30
Mill, Round Edge	10	9	Screw Head (X.F.) (1 doz.)		45
Milled Curved Tooth, Superior	10	31	Shoe Rasps (1/2 doz.)		27
Needle Files, Round Handle (X.F.) (1 doz.)		49	Silversmiths Rifflers (1 doz.)		53
Needle Files, Square Handle (X.F.) (1 doz.)		48	Slim Tapers	10	11
Oliver Type of Filing Machine Files			Slitting (X.F.)	6	41
(X.F.) (1 doz.)		52	Special Crosscut Files (1 doz.)		9
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			Warding (X.F.) (1 doz.)		38
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# N I C H O L S O N   F I L E   C O M P A N Y

APPROXIMATE WEIGHTS PER DOZEN IN POUNDS AND OUNCES

## AMERICAN PATTERN FILES

	3"	4"	4½"	5"	5½"	6"	7"	8"	9"	10"	12"
Taper						2-	3- 2	4- 4		7- 8	
Slim Taper		- 5		- 9		-15	1-11	2-11			
Extra Slim Taper		- 4		- 7	- 9	-11	1- 2				
Double Extra Slim Taper		- 3		- 5		- 7	-11	1- 1			
Double Ender							-12	1- 5	1-15	2- 6	
Crosscut								3- 6			
	4"	5"	6"	7"	8"	10"	12"	14"	16"	18"	
Mill Regular	- 6		1- 3	1-15	2-11	5- 4	9- 1	13- 2	20-10		
Special Crosscut			1- 3	2-	2-14	5- 5					
Flat	- 9		1-10		3-10	7-	11- 9	18- 8	27- 1	36- 8	
Half Round	-10		1- 7		3- 2	5-13	9-14	16-	22-12		
Hand			2- 4		4-11	8-14	14- 5	21- 5	31- 8		
Round	- 4		-12	1- 3	1-12	3- 4	6-12	12-	19- 8		
Square	- 4		-14		1-15	3-13	8- 8	15-	25-	39-	
Knife	- 7		1-		2- 3	4- 3					
Warding	- 5		-12		1- 9	2-14					
Flat Wood Rasp					3- 9	7-	11-10	18-11	26- 8		
Half Round Wood Rasp			1- 8		3- 4	6-	10- 6	16-12	24- 2		
	12"		14"	15"	16"	18"					
Plain Horse Rasp	13-12		17-10		26-11						
Plain Horse Rasp—Slim						25-15					
Tanged Horse Rasp	17- 6		26-								
Tanged Horse Rasp—Slim											
Tanged Horse Rasp—Thin			23-4								

## X. F. SWISS PATTERN FILES

	3"	4"	5"	6"	8"	10"	12"
Pillar	- 5	-10		1-10	3- 8	6- 3	9-12
Pillar Narrow	- 4	- 8		1- 4	2-10	5- 3	8- 8
Pillar Extra Narrow	- 3	- 5		-13	1-15	3-11	6-
Half Round	- 4	- 8	-12	1- 4	2-11	6- 3	9- 8
Round	- 1	- 4	- 6	-11	1- 5	2-11	4-10
Three Square	- 3	- 6	-11	1- 1	2-10	4-11	
Hand	- 7	-14		2- 5	4- 9	8-	14- 8
Square	- 2	- 4		-10	1- 8	3-	6- 3
Warding	- 3	- 5		-13	1-10	2-15	
Knife	- 4	- 7	-11	1- 2	2- 3		

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